



DH-IPC-HDW2249T-S-IL

2MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 M.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical	Specification	on					Main stream: 1920 × 1080@(1–25/30 fps)
Camera						Video Frame Rate	Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the may frame rates of each
Image Sensor		1/2.8" CMOS					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Resolution		1920 (H) × 1080 (V)				Stream Capability	2 streams
ROM		128 MB				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
RAM		128 MB				D't Data Caustinal	
Scanning Sys		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutter Speed			1/3 s-1/100,0			Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Day/Night	Auto (ICR)/Color/B/W
S/N Ratio		>56 dB				BLC	Yes
Illumination	Distance	up to 30 m (9	8.43 ft) (IR); u¡	o to 30 m (98.4	3 ft) (Warm	HLC	Yes
mummation	Distance	light)				WDR	120 dB
	On/Off Control	Auto; Manual				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator N	lumber	1 (IR LED); 1 (Warm light)			Gain Control	Auto; Manual
Pan/Tilt/Rot	ation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Noise Reduction	3D NR
Lens		Notation, U =300				Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Focal Length	1	2.8 mm; 3.6 mm				Mirror	Yes
Max. Apertu	re	F1.6				Privacy Masking	4 areas
Field of View	1	2.8 mm: H: 107°; V: 56°; D: 127°				Audio	
Iris Control		3.6 mm: H: 88°; V: 44°; D: 105° Fixed				Built-in MIC	Yes
	D'-t	2.8 mm: 0.7 m (2.30 ft)				Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus	Distance	3.6 mm: 1.3 m (4.27 ft)				Alarm	
DORI Distance	Lens 2.8 mm	Detect 43.9 m (144.03 ft)	Observe 17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; SMD; voltage detection; security exception
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.35 ft)	Network	
Intelligen	ce					Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		classification	*	functions supp letection of veh		SDK and API	Yes
Smart Search		human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event wides.				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Video		videos				Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video Compression		H.264H; H.265; H.264; H.264B; MJPEG (Only supported				User/Host	6 (Total bandwidth: 36 M)
Smart Codec		by the sub stream) Smart H.265+; Smart H.264+				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
S. Hair Couce						Browser	IE; Chrome; Firefox
						Management Software	DSS;DMSS



Mobile Client

iOS;Android

Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted
	upgrade; Trusted boot; Generation and importing of X.509 certification

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUI: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
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Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.6 W (12 VDC); 1.9 W (PoE) Max. (H.265 + intelligence + WDR + warm light): 3.8 W (12 VDC); 4.4 W (PoE)	

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67

Structure

Casing Material	Inner core: Metal ; Cover: Plastic	
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")	
Net Weight	0.37 kg (0.82 lb)	
Gross Weight	0.51 kg (1.12 lb)	

Ordering Information				
Туре	Model	Description		
2MP camera	DH-IPC-HDW2249T-S-IL	2MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera		
	PFA13G	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories	PFA109	Mount Adapter		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



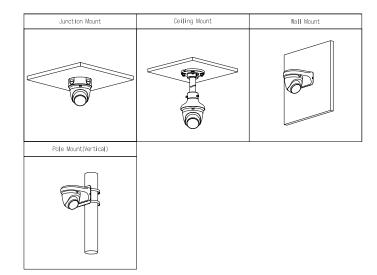
PFM321D 12 VDC 1A Power Adapter



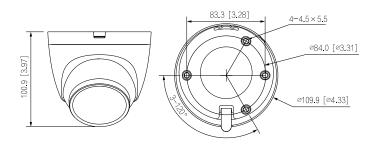
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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